



Applied Marine Sciences, Inc.

502 N. Hwy 3, Suite B, League City, TX 77573, (281) 554-7272 Fax (281) 554-6356

ANALYTICAL RESULTS

Client: Weston Solutions
Project Number: N/A
Project Name: POLB - Pier E
Client Sample ID: 1 Top Comp
AMS Sample ID: 25302

AMS Project Number: 2006-740-12
Date Sampled: 9/21/2006
Date Received: 9/22/2006
Matrix: Sediment

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Data Qualifier</u>	<u>LOD</u>	<u>LOQ</u>	<u>Method</u>	<u>Date Analyzed</u>
Total Organic Carbon	1.08	%		0.01	0.03	EPA 9060A	10/4/2006
Water Content	62	%				ASTM D 2216	9/25/2006
Liquid Limit	48	--				ASTM D 4318	9/25/2006
Plastic Limit	26	--				ASTM D 4318	9/25/2006
Plasticity Index	22	--				ASTM D 4318	9/25/2006

Sample Description: Lean clay (CL), dark greenish gray (10Y 4/1)

Quality Assurance: These analyses were performed in accordance with EPA and ASTM guidelines, the 2006 DoD Quality Systems Manual for Environmental Laboratories (Version 3) and the 2003 NELAC Standard, with the following exceptions:

- * TOC sample not analyzed in quadruplicate
- * TOC spike duplicate not analyzed every 10 samples

KS Davis, P.G.

AMS, Inc. Project Manager



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ANALYTICAL RESULTS

Client: Weston Solutions
Project Number: N/A
Project Name: POLB - Pier E
Client Sample ID: 1 Bottom Comp
AMS Sample ID: 25303

AMS Project Number: 2006-740-12
Date Sampled: 9/21/2006
Date Received: 9/22/2006
Matrix: Sediment

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Data Qualifier</u>	<u>LOD</u>	<u>LOQ</u>	<u>Method</u>	<u>Date Analyzed</u>
Total Organic Carbon	0.39	%		0.01	0.03	EPA 9060A	10/4/2006
Water Content	39	%				ASTM D 2216	9/25/2006
Liquid Limit	--	--				ASTM D 4318	9/25/2006
Plastic Limit	NP	--				ASTM D 4318	9/25/2006
Plasticity Index	--	--				ASTM D 4318	9/25/2006

Sample Description: Dark greenish gray (10Y 4/1)

Quality Assurance: These analyses were performed in accordance with EPA and ASTM guidelines, the 2006 DoD Quality Systems Manual for Environmental Laboratories (Version 3) and the 2003 NELAC Standard, with the following exceptions:

- * TOC sample not analyzed in quadruplicate
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ANALYTICAL RESULTS

Client: Weston Solutions
Project Number: N/A
Project Name: POLB - Pier E
Client Sample ID: 2 Top Comp
AMS Sample ID: 25304

AMS Project Number: 2006-740-12
Date Sampled: 9/19/2006
Date Received: 9/22/2006
Matrix: Sediment

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Data Qualifier</u>	<u>LOD</u>	<u>LOQ</u>	<u>Method</u>	<u>Date Analyzed</u>
Total Organic Carbon	1.51	%		0.01	0.03	EPA 9060A	10/4/2006
Water Content	42	%				ASTM D 2216	9/25/2006
Liquid Limit	40	--				ASTM D 4318	9/25/2006
Plastic Limit	22	--				ASTM D 4318	9/25/2006
Plasticity Index	18	--				ASTM D 4318	9/25/2006

Sample Description: Lean clay (CL), dark greenish gray (10Y 4/1)

Quality Assurance: These analyses were performed in accordance with EPA and ASTM guidelines, the 2006 DoD Quality Systems Manual for Environmental Laboratories (Version 3) and the 2003 NELAC Standard, with the following exceptions:

- * TOC sample not analyzed in quadruplicate
- * TOC spike duplicate not analyzed every 10 samples

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ANALYTICAL RESULTS

Client: Weston Solutions
Project Number: N/A
Project Name: POLB - Pier E
Client Sample ID: 2 Bottom Comp
AMS Sample ID: 25305

AMS Project Number: 2006-740-12
Date Sampled: 9/21/2006
Date Received: 9/22/2006
Matrix: Sediment

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Data Qualifier</u>	<u>LOD</u>	<u>LOQ</u>	<u>Method</u>	<u>Date Analyzed</u>
Total Organic Carbon	0.38	%		0.01	0.03	EPA 9060A	10/4/2006
Water Content	26	%				ASTM D 2216	9/25/2006
Liquid Limit	--	--				ASTM D 4318	9/25/2006
Plastic Limit	NP	--				ASTM D 4318	9/25/2006
Plasticity Index	--	--				ASTM D 4318	9/25/2006

Sample Description: Dark greenish gray (10Y 4/1)

Quality Assurance: These analyses were performed in accordance with EPA and ASTM guidelines, the 2006 DoD Quality Systems Manual for Environmental Laboratories (Version 3) and the 2003 NELAC Standard, with the following exceptions:

- * TOC sample not analyzed in quadruplicate
- * TOC spike duplicate not analyzed every 10 samples

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TOC QUALITY CONTROL RESULTS

Client: Weston Solutions
Project Number: N/A
Project Name: POLB - Pier E
Matrix: Sediment
Method: EPA 9060A

AMS Project Number: 2006-740-12
Date Analyzed: 10/4/2006
Batch ID: 100406-03

Method Blank (Batch Continuing Blank (CB)), Continuing Calibration Verification (CCV) and Independent Continuing Calibration Verification (ICCV) Results:

AMS Sample ID	Parameter	Result (%)	CCV Conc. (%)	Relative % Difference (%)	Data Qualifier	LOD (%)	LOQ (%)	QC Limits (%)
CB-03	TOC	0.01	0.01	--	U	0.01	0.03	≤ 0.01
CCV-03	TOC	4.83	4.80	0.62		0.01	0.03	≤ 5 RPD
ICCV-03	TOC	2.07	2.00	3.44		0.01	0.03	≤ 5 RPD

Sample Duplicate Results:

AMS Sample ID	Parameter	Result (%)	Duplicate Result (%)	Relative % Difference (%)	Data Qualifier	LOD (%)	LOQ (%)	QC Limits (%)
25305	TOC	0.38	0.33	14.08		0.01	0.03	≤ 25 RPD

Samples in Batch (AMS ID): 25300 25302 25304 25306 25308
25301 25303 25305 25307 25309

Quality Assurance: These analyses were performed in accordance with EPA and ASTM guidelines, the 2006 DoD Quality Systems Manual for Environmental Laboratories (Version 3) and the 2003 NELAC Standard, with the following exceptions:

- * TOC samples not analyzed in quadruplicate
- * TOC spike duplicate not analyzed every 10 samples

Project-specific Quality Assurance requirements supersede those provided by the above quality systems and documents. Measurements of uncertainty are available upon request.

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ATTERBERG LIMIT QUALITY CONTROL RESULTS

Client: Weston Solutions
Project Number: N/A
Project Name: POLB - Pier E
Matrix: Sediment
Method: ASTM D 2216, D 4318

AMS Project Number: 2006-740-12
Date Analyzed: 9/25/2006
Batch ID: 092506-01

Sample Duplicate Results: Water Content (W_C), Liquid Limit (LL), Plastic Limit (PL), and Plasticity Index (PI):

AMS Sample ID	Parameter	Result (%)	Duplicate Result (%)	Relative % Difference (%)	Data Qualifier	QC Limits (%)
25305	W_C	26	26	0.00		≤ 25 RPD
25305	LL	--	--	--		≤ 25 RPD
25305	PL	NP	NP	--		≤ 25 RPD
25305	PI	--	--	--		≤ 25 RPD

Samples in Batch (AMS ID):
25300 25302 25304
25301 25303 25305

Quality Assurance: These analyses were performed in accordance with EPA and ASTM guidelines, the 2006 DoD Quality Systems Manual for Environmental Laboratories (Version 3) and the 2003 NELAC Standard, with the following exceptions:

* None

Project-specific Quality Assurance requirements supersede those provided by the above quality systems and documents. Measurements of uncertainty are available upon request.



QUALITY CONTROL RESULTS

Client: Weston Solutions
Project Number: N/A
Project Name: POLB - Pier E
Matrix: Sediment
Methods: EPA 9060A, ASTM D 2216, D 4318

AMS Project Number: 2006-740-12

Data Qualifiers:

- U Undetected at the Limit of Detection (LOD): The associated value is the Limit of Detection, adjusted by any dilution factor used in the analysis.
- J The analyte was positively identified, but was below the Limit of Quantitation (LOQ). The quantitation is an estimate.
- B Blank contamination: The analyte was detected above one-half the LOD in an associated blank.
- Q One or more Quality Control criteria failed. Data usability should be carefully assessed by the Project Team.
- I Insufficient sample was provided to perform required Quality Control analyses and/or to meet method-specific sample volume recommendations.

Definitions:

- LOD The Limit of Detection (LOD) is determined by quantitative establishment of the Method Detection Limit (MDL), as defined in 40 CFR 136(b).
- LOQ The Limit of Quantitation (LOQ) is the minimum level, concentration or quantity of a target variable (target analyte) that can be quantitatively reported with a specified level of confidence. As defined in DoD QSM §D.1.2.2, the LOQ value must be a minimum of 3 times the LOD, although the specified level of confidence may have a lower quantitative value.

Quality Assurance: These analyses were performed in accordance with EPA and ASTM guidelines, the 2006 DoD Quality Systems Manual for Environmental Laboratories (Version 3) and the 2003 NELAC Standard, with the following exceptions:

- * TOC sample not analyzed in quadruplicate
- * TOC spike duplicate not analyzed every 10 samples

Project-specific Quality Assurance requirements supersede those provided by the above quality systems and documents. Measurements of uncertainty are available upon request.